

NOTES ON THE GENUS DELOSPERMA (MESEMBRIAE)

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Delosperma guthriei Lavis sp. nov. (*Angulatipedes*).—Planta glabra, primo caespitosa, demum ramos ad 62 cm. longos emittens, internodiis saepius 1—3 cm. longis, 1—4 mm. diam.; folia ascendentia vel fere erecta vel rare recurva, triangularia apiculata, 2 cm. longa, 4 mm. lata diametroque, vel ad 4.5 cm. longa, 10 mm. lata, vagina brevissima; flores solitarii diurni pentameri, 2.6 cm. diam.; pedunculus superne angulatus, ad 2 cm. longus; sepala acuminata subaequilonga, ad 1.3 cm. longa, interiora marginata; petala ca. 4-seriata, inferne leviter angustata, obtusa vel emarginata, nivea, ad 10 mm. longa, ad 1.5 mm. lata; staminodia superne recurva; stamina 3-seriata, filamentis albis, intimis prope medium papillatis, antheris luteis; glandulae approximatae crenulatae; ovarium obtuse lobatum, lobis glandulas non attingentibus; stigmata subulata breviter caudata, 3 mm. longa.

Cape Province: in dit. Caledon; Mossel River, Poole's Bay near Hermanus, Feb. 1920, *F. Guthrie*. N.B.G. 76/20.

Delosperma saxicolum Lavis sp. nov. (*Augustifolia*).—Plantae 2 visae, caespitosae, 4 cm. altae, ad 11 cm. diam.; partes herbaceae glabrae politae; folia ascendentia vel demum patentia, linearia acuta, minute apiculata, 1.3—1.7 cm. longa, 6—7 mm. lata, ad 6 mm. diam.; flores solitarii diurni, subsessiles vel pedunculi ad 6 mm. longi, bracteis 5—13 mm. longis; receptaculum obconicum, ad 3 mm. longum; sepala 5, subaequilonga apiculata, interiora membranaceo marginata, 5 mm., vel in floribus majoribus, 7 mm. longa, 2 mm. lata; petala 2-seriata, sat laxa, inferne leviter angustata pallidaque, superne pulchre rosea, ad 1 cm. longa, 1 mm. lata; stamina 9—10-seriata, filamentis albis, antheris pallide luteis; glandulae conspicuae; ovarii lobi erecti approximati, fere ad 1 mm. alti; stigmata 5, subulata viridia, cum cauda breve 2 mm. longa.

Cape Province: in dit. Humansdorp; about 10 miles south of Settlement at Storms River National Park. On cliffs 100—200 ft. above the coast. Amongst low fynbos bush. "Petals pale pink". 10 miles south of the mouth of Storms River, Oct. 1968, *E. Esterhuysen* 32049.

Delosperma roseopurpureum Lavis sp. nov. (*Papillosa*).—Planta integra non visa; rami florentes 15 visi, ad 17 cm. longi, internodiis 0.7—4.5 cm. longis, ad

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3 mm. diam.; partes herbaceae papillatae virides; folia erecta vel ascendentia, fere semiteretia vel leviter canaliculata, lateraliter visa obtusa, 2·5—5 cm. longa, ad 4 mm. lata diametroque; flores pentameri diurni, demum laxe cymosi, cymis 2—6-fl.; pendunculi 2—3 cm. longi; receptaculum obconicum, 8 mm. longum, ad 9 mm. diam.; sepala exteriora subobtusata, ad 1·1 cm. longa, interiora patentia, sat anguste marginata, ad 6 mm. longa; petala sat dense 3—4-seriata, omnia purpureo—rosea, ad 1·9 cm. longa, ad 1·5 mm. lata; staminodia exteriora superne recurva, purpureo—rosea, ad 7 mm. longa, stamina 4—7 mm. longa, filamentis intimis prope medium papillatis; glandulae crenulatae conspicuae, sat distantes; ovarium supra obtuse lobatum, lobis glandulas attingentibus; stigmata subulata, ad 3·5 mm. longa cum cauda 0·75 mm. longa.

Orange Free State: in dit. Ladybrand; near Ladybrand, 1917, *M. M. Page*. N.B.G. 3006/17. Fl. Jan. 1918. Collected again by *Miss Page*. Moriza, Basutoland, May 1919.

The following are the 29 sections into which the genus *Delosperma* N. E. Br. Gard. Chron. 78:273 (1925) has been divided, arranged chronologically:—*Delosperma*, *Angustifolia*, *Planifolia*, *Tropica*, *Cymosa*, *Carinata*, *Compressilatera*, *Quadrifidum*, *Eximia*, *Papillatipetalum*, *Tholiforme*, *Gracillimum*, *Teretifolia*, *Multipetalum*, *Alticola*, *Anularia*, *Decorticans*, *Papyraceitunicatum*, *Setiferipapillatum*, *Gibbosum*, *Angulatipedes*, *Reptans*, *Crassifolium*, *Bicarinatireceptaculum*, *Spathulatipetalum*, *Androstenum*, *Eckloniana*, *Papillosa*, *Sparsipetalum*. The first section *Delosperma* was described in Jl S. Afr. Bot. 33:313 (1967).

Angustifolia Lavis sect. nov.—Plantae humilis, caespitosae; radix tuberosa vel lignosa; partes herbaceae glabrae, saepissime viridia, papillosae, papillis rare setiferis; rami 8—27 cm. longi, internodiis 0·6—7 cm. longis, ad 3 mm. diam.; folia patentia, ascendentia vel erecta, vel interdum demum recurvata, supra plana vel concava 1·5—2·7 cm. longa, ad 3 mm. diam.; flores saepius solitarii, vel, interdum 2—3-nati et subcymosi, diurni; pedunculi subnulli, vel ad 7 cm. longi; receptaculum saepe turbinatum, ad 4 mm. diam.; sepala 5, lata; petala 1—4-seriata, linearia, obtusa vel denticulata, nivea, pallide rosea vel atro-purpurea rare lutea ad 12 mm. longa, ad 1·75 mm. lata; staminodia saepissime addita, filiformia vel petaloidea, stamina excedentia, alba, pallide lutea vel saturate rosea, interdum ciliatipapillata, ad 7 mm. longa, stamina 2—5-seriata, filamentis albis, pallide vel saturate roseis, vel luteis ad 5 mm. longa, antheris albis vel stramineis; glandulae inconspicue approximatae vel distantes conspicuae, stigmata 5, subulata, cum cauda 1·5—2·5 mm. longa.

Lectotype. *Delosperma brevipetalum* L. Bol. "Mesemb." 2:152 (1929).

Cape Province: in dit. Albany, prope Grahamstown, Mr. Jolly's farm, Oct. 1928, *Dyer* 1653.

General Distribution: Cape Province, Eastern Province, Lesotho (Basutoland), Orange Free State, Natal and the Transvaal. Localities range from river mouths to mountain heights, the greatest altitude recorded being 9,000 ft., *Delosperma nubigenum* (Schltr.) L. Bol. Habitats are of various description, rocky, sandy, maritime and grassland. The number of named species in this section is 50, roughly divided as follows: Zululand, one; Natal, 5; Transvaal, 6; Orange Free State, 7; Lesotho, 6; Cape Province, 8; the most westerly being *Delosperma macrostigma* L. Bol. from Riversdale and Swellendam vicinity. The remainder (17) come from the Eastern Province. These species are all slender and small flowered, delicate and graceful.

Planifolia Lavis sect. nov.—Plantae decumbentes vel reptantes, glabrae et politae; radice fibrosae; rami graciles, ad 30 cm. longi, internodiis 0·5—5 cm. longis, 0·5—4·5 mm. diam.; folia patentia vel adscendentia, supra plana ovata, acuta vel acuminata, sessilia vel subpetiolata, lamina ad 3·5 cm. longa; flores solitarii, subsessiles vel pedunculi ad 4 mm. longi; sepala 5, crassa interdum valde inaequalia; petala 3—4-seriata, obtusa vel acuta, purpureo rosea vel pallida ad 1·3 cm. longa, ad 1·5 mm. lata; staminodia pauca, 6—7 mm. longa; stamina ad 7-seriata, filamentis interioribus saepe papillatis, glandulae distinctae vel quasi subcoalescentes; ovaria lobis erecti vel patentes et glandulas attingentes; stigmata 5, subulata, 2—4 mm. longa.

Lectotype. *Delosperma tradescantioides* (Berger) L. Bol. in Fl. Pl. S. Afr. VII:261 (1927).

Eastern Province: in dit. Kentani, Quolora Valley, Dec. 14, 1905, *Miss Alice Pegler* 1285. "Trailing over hillsides, flowers white, occasionally magenta".

The other species in this section *D. lebomboense* (L. Bol.) Lavis in Jl S. Afr. Bot. 33:314 (1967) is recorded in the Bolus Herbarium from Lebombo, Zululand, N.E. corner of the Transvaal, Natal and Swaziland.

D. saxicolum was described from fresh material; *D. guthriei* and *D. roseo-purpureum* from drawings by *Miss M. M. Page* and dried material.

Note: The type specimens of all new species described in this paper are in the Bolus Herbarium, University of Cape Town.